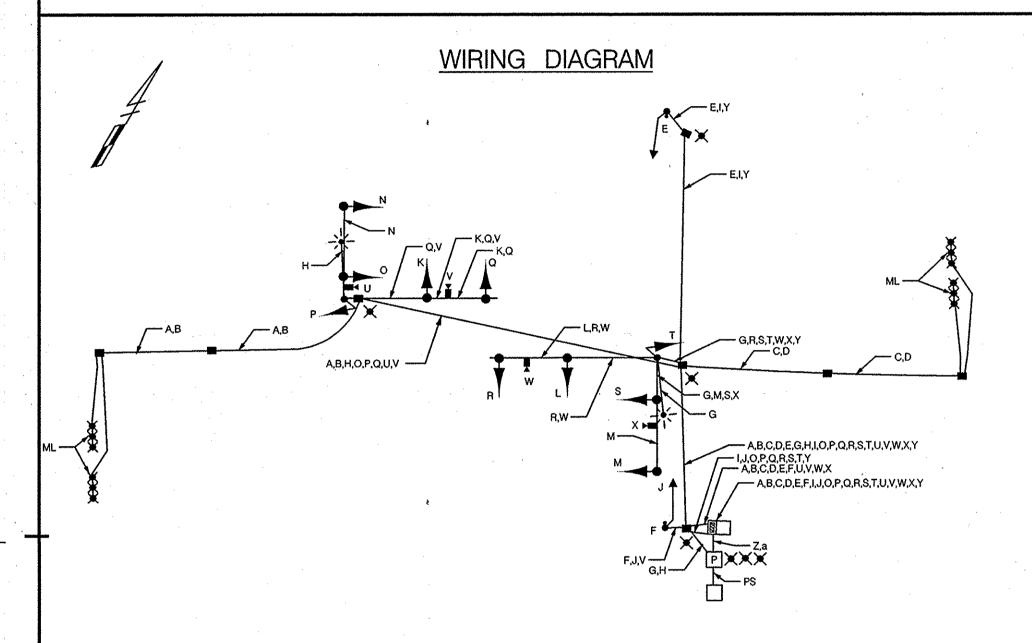
THIS PROJECT INVOLVES THE RECONSTRUCTION OF AN EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF ST. CHARLES PKWY, AND POST OFFICE ROAD IN CHARLES COUNTY. THE WORK IS NECESSITATED BY THE CONSTRUCTION OF A FOURTH LEG TO THE INTERSECTION. ST. CHARLES PKWY, IS ASSUMED TO RUN IN A EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL BE UPGRADED TO OPERATE IN A NEMA SIX-PHASE, FULLY-ACTUATED MODE WITH EXCLUSIVE-PERMISSIVE LEFT TURN PHASES FOR BOTH DIRECTIONS OF ST. CHARLES PKWY. AND CONCURRENT SIDE STREET PHASING. AN ALTERNATE PEDESTRIAN PHASE FOR THE EAST LEG OF ST. CHARLES PKWY. WILL BE

CONTROLLER REQUIREMENTS

A NEW EIGHT-PHASE, FULLY-ACTUATED CONTROLLER WITH ONE (1) FOUR CHANNEL, LOOP DETECTOR AMPLIFIER AND ONE (1) VIDEO DETECTION INTERFACE RACK EQUIPMENT HOUSED IN A NEMA "6" BASE MOUNTED CABINET WILL BE INSTALLED AT THE INTERSECTION.



WIRING KEY

MICRO-LOOP PROBE LEAD-IN 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.) TRAY CABLE 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) VIDEO DETECTION CABLE STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.) 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.) MICRO-LOOP PROBE PROPOSED ELECTRIC SERVICE BY POWER COMPANY

GROUND ROD

EQUIPMENT LIST "A"

A EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

DESCRIPTION

NONE

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION							
LS	MAINTENANCE OF TRAFFIC							
5 CY	TEST PIT EXCAVATION							
220 LF	12 IN. HEAT APPLIED WHITE THERMOPLASTIC PAVEMENT MARKINGS							
185 LF	24 IN. WHITE HEAT APPLIED WHITE THERMOPLASTIC PAVEMENT MARKING							
32 EA	12 INCH LED SIGNAL HEAD SECTION							
6 EA	8 INCH LED SIGNAL HEAD SECTION							
2 EA	15 FT. LIGHTING ARM ON SIGNAL POLE							
2 EA	AUDIBLE-TACTILE PEDESTRIAN PUSHBUTTON AND SIGN							
2 EA	BREAKAWAY PEDESTAL POLE							
2 EA	L.E.D. 16 IN. COUNTDOWN PEDESTRIAN SIGNAL							
4 EA	MICROLOOP PROBE (ANY LENGHT) LEAD IN							
LS	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT							
2 EA	TWIN MAST ARM POLE & 50FT/60 FT MAST ARMS							
4 EA	VIDEO DETECTION CAMERA AND CABLE							
30 LF	1 IN DETECTOR SLEEVE, FLEXIBLE LIQUID-TIGHT CONDUIT							
730 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 IN - TRENCHED							
225 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 IN BORED							
280 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE							
1 EA	METERED SERVICE PEDESTAL EMBEDDED							
20 LF	ELECTRICAL CABLE 1 - CONDUCTOR NO. 4 AWG - THHN /THWN							
8 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE							
200 LF	ELECTRICAL CABLE 2 - CONDUCTOR (NO 14 AWG)							
200 LF	ELECTRICAL CABLE 3 - CONDUCTOR (NO 14 AWG)							
100 LF	ELECTRICAL CABLE 5 - CONDUCTOR (NO 14 AWG)							
1100 LF	ELECTRICAL CABLE 7 - CONDUCTOR (NO 14 AWG)							
350 LF	ELECTRICAL CABLE 2 - CONDUCTOR (NO 12 AWG)							
130 LF	SAW CUT FOR SIGNAL							
1 EA	CONTROLLER AND CABINET - BASE MOUNT							
2 EA	250 WATT HPSV LUMINAIRE							
7 EA	3/4 IN. X 10 FT. GROUND ROD							
14 CY	CONCRETE FOR FOUNDATION							
1 EA	R3-5L SIGN (30" X 36") - MAST ARM MOUNT							
1 EA	R3-5R SIGN (30" X 36") - MAST ARM MOUNT							
1 EA	D3-2 DUAL FACE SIGN VAR X 16) - MAST ARM MOUNT							
2 EA	D3-2 SINGLE FACE SIGN VAR X 16) - MAST ARM MOUNT							
1 EA	FOUR-CHANNEL LOOP DETECTOR AMPLIFIER							
1 EA	2-WIRE CONTROL UNIT							
2 EA	R4-7 SIGN (30" X 36") AND 4" X 6" SUPPORT							
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EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

DESCRIPTION

NONE

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASING CHART

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PHÁSE 1 & 6	G 4 -G−	G 4 G−	G	R	R	R	R	R	R	R	DW	DW	
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2 & 6 CHANGE	Υ	Y	Υ	Υ	Y	Υ	R	R	R	R	DW	DW	<u> </u>
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	DW	DW] 1
4 & 8 CHANGE	R	R	R	R	R	R	Υ	Υ	Y	Y	DW	DW	-
PHASE 4 & 8 ALT	R	R	R	R	R	R	G	G	G	G	WK	WK] 1
PED CLEAR `	R	R	R	R	R	R	G	G	G	G	FL/DW	FL/DW	<u> </u>
4 & 8 ALT CHANGE	R	R	R	R	R	R	Υ	Υ	Y	Υ	DW	DW	
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	DARK	DARK	1

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION PLAN ST. CHARLES PKWY. AND POST OFFICE ROAD

TRAFFIC CONCEPTS INC. 325 Gambrills Road Suite E

Gambrills, MD 21054 (410) 923-7101

FAX (410) 923-6473 EMAIL TRAFFIC.CONCEPTS@COMCAST.NET

SCALE NO	NE DATE	11-08-07	CONTRACT NO.
DESIGNED BY	T. ZAYDEL	COUNTY	CHARLES
DRAWN BY	T. ZAYDEL	LOGMILE	N/A
CHECKED BY	K, SCHMID	T.I.M.S. NO). 1- 693
F.A.P. NO.	N/A	TOD NO.	
DRAWING NO.	TS-3633A GI		SHEET NO. 2 OF 2